

## SEMINARIOS ONLINE 21.04.2021 | 15:30 horas

## Prof. BRIAN SKINNER

**Department of Physics, Ohio State University** 

## "Many-particle interactions and compressibility, in electrons and in video games"

Understanding the state of a many-electron system is a notoriously difficult problem, because it involves a competition between strong Coulomb forces and quantum-mechanical energies. In the first part of this talk, I will discuss how to think about the energy of a simple two-dimensional gas of electrons at zero temperature. I will show how this thinking helped to resolve a strange experimental paradox, in which a capacitor behaved as if it were much thinner than it actually was.

In the second part of the talk, I will show how these ideas from electron physics helped us to make progress in a very different setting, which may strike you as both unusual and very familiar.

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## Enlace plataforma Zoom:

Interesados solicitar coordenadas Zoom a lautaro.vergara@usach.cl

